

KARAVAYEV, N.M.; RUMYANTSEVA, Z.A.; VOYNALOVICH, M.V.

Laboratory investigation of the coking properties of Fan-Iagnob
coals. Trudy Inst. khim. AN Tadzh. SSR 3:51-98 '60. (MIRA 14:12)
(Tajikistan--Coal--Analysis)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

KARAVAYEV, N.M.; RUMYANTSEVA, Z.A.; VOYNALOVICH, M.V.; REYMAN, I.V.

Chemical nature and properties of Kshtut-Zauran coals. Trudy
Inst. khim. AN Tadzh. SSR 3:147-182 '60. (MIRA 14:12)
(Tajikistan--Coal--Analysis)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

PEVZNER, Z.I.; NIKOLAYEV, A.G.; VOYNALOVICH, M.V.

Characteristics of the coking properties of coals of the central sector of the Fan-Iagnob deposit and the qualitative indices of coke. Trudy Inst. khim. AN Tadzh. SSR 3:99-114 '60. (MIRA 14:12)
(Tajikistan—Coal—Analysis)

VOYNALOVICH, M.V.; KARAVAYEV, N.M.; SIPOVSKIY, G.V.

Rapid method for quantitative determination of phosphorus in
coals. Trudy Inst. khim. Akad. Nauk Tadzh. SSR 3:23-50 '60. (MIRA 14:12)
(Phosphorus)
(Coal--Analysis)

VOYNALOVICH, M.V.; SIPOVSKIY, G.V.

Rapid method for the quantitative determination of phosphorus
in coal. Dokl.AN Tadzh.SSR 2 no.3:11-15 '59.
(MIRA 13:4)

1. Institut khimii AN Tadzhikskoy SSR. Predstavлено akademikom
AN Tadzhikskoy SSR A.P.Nedzvetskin.
(Phosphorus--Analysis) (Coal--Analysis)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNAR, A.I.

FREEDMAN, D.L.; SOPIN, Ye.F.; VOYNAR, A.I., red.; LIPKINA, T.G., red.izd-va;
GAMZAYEVA, M.S., tekhn.red.

[Practical work in biological chemistry] Praktikum po biologicheskoi khimii. Moskva, Gos.izd-vo "Sovetskaya nauka," 1957. 292 p.

(MIRA 11:2)

(BIOLOGICAL CHEMISTRY--LABORATORY MANUALS)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYNAR, Aleksey Iosifovich; KAFYSHEVA, V.S., red.; YEZHNOVA, L.L.,
tekhn. red.

[Trace elements in living nature] Mikroelementy v zhivoi pri-
rode. Moskva, Vysshiaia shkola, 1962. 91 p. (MIRA 15:11)
(Trace elements)

VOYNAR, A. I. i GILENSEN, A. YE.

20091 VOYNAR, A. I. i GILENSEN, A. YE. O vliyanii nekotorykh mikroelementov i askortinovoy kisloty na regenepatsiyu plazmaticheskikh belkov u donorov.
Vracheb. delo, 1949, No. 6, stb. 495-98.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

VOYHAR, Aleksey Iosifovich; KHODZHAYEVA, I.V., red.; LIPKINA, T.G.,
red.izd-va; LEZHKOVA, L.L., tekhn.red.

[Biological role of trace elements in animals and man] Biologicheskaiia rol' mikroelementov v organizme zhivotnykh i cheloveka.
Izd.2., Moskva, Gos.izd-vo "Vysshaisia shkola," 1960. 543 p.

(MIRA 14:3)

(TRACE ELEMENTS) (MINERALS IN THE BODY)

PEYVE, Ya.V., akademik, otv. red.; VLASYUK, P.A., akademik, red.; SIROCHENKO, I.A., prof., red.; VOYNAR, A.I., prof., red.; MINORIK, A.V., kand. biol. nauk, red.; OSTROVSKAYA, L.K., doktor biol. nauk, red.; ZADERIY, I.I., doktor sel'khoz. nauk, red.; KURINNAYA, M.F., dots., red.; KLIMOVITSKAYA, Z.M., kand. biol. nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.; KAPITANCHUK, V.A., red.; RAD'KO, M.K., red.

[Trace elements in agriculture and medicine; materials]

Mikroelementy v sel'skom khoziaistve i meditsine; materialy. Kiev, Gossel'khozizdat USSR, 1963. 689 p.

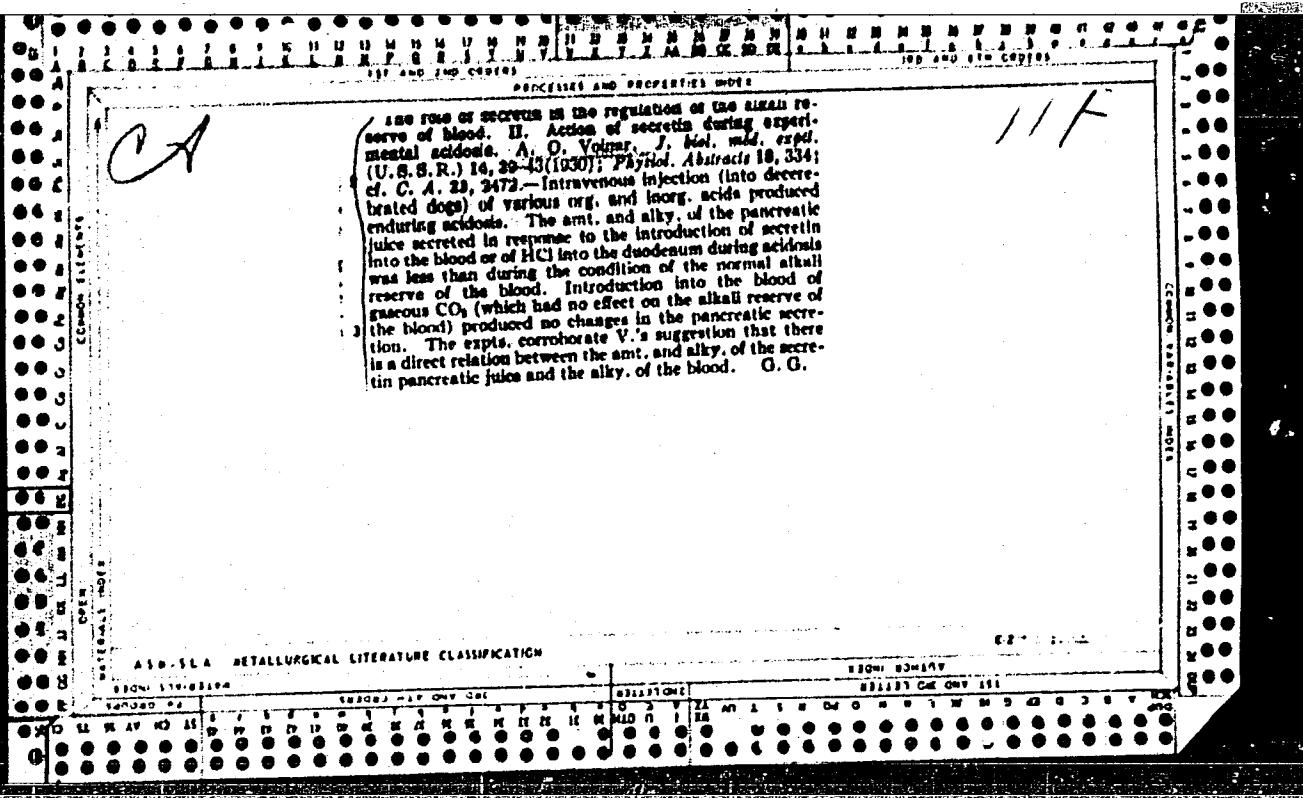
(MIRA 18:1)

1. Vsesoyuznoye soveshchaniye po voprosam primeneniya mikroelementov v sel'skom khozyaystve i meditsine, 4th, Kiev, 1962.
2. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy AN Ukr.SSR (for Ostrovskaya, Vlasyuk).
3. Institut biologii AN Latviyskoy SSR (for Peyve).
4. Kiievskiy meditsinskiy institut (for Kurinnaya).
5. Donetskiy meditsinskiy institut im. A.M.Gor'kova (for Voynar).
6. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii i biokhimii sel'sko-khozyaystvennykh zhivotnykh (for Mitsyk).
7. Belotserkovskiy sel'skokhozyaystvennyy institut (for Zaderiy).

VOYNAR, A.I. [Voinar, O.I.]; GALAKHOVA, V.N. [Halakhova, V.N.]

Effect of the trace element manganese on the fat and glycogen content of the liver. Ukr. biokhim. zhur. 33 no.2:261-265 '61.
(MIRA 14:4)

1. Kafedra biokhimii Stalinskogo meditsinskogo instituta.
(MANGANESE—PHYSIOLOGICAL EFFECT)
(LIVER—GLYCOGENIC FUNCTION) (FAT METABOLISM)

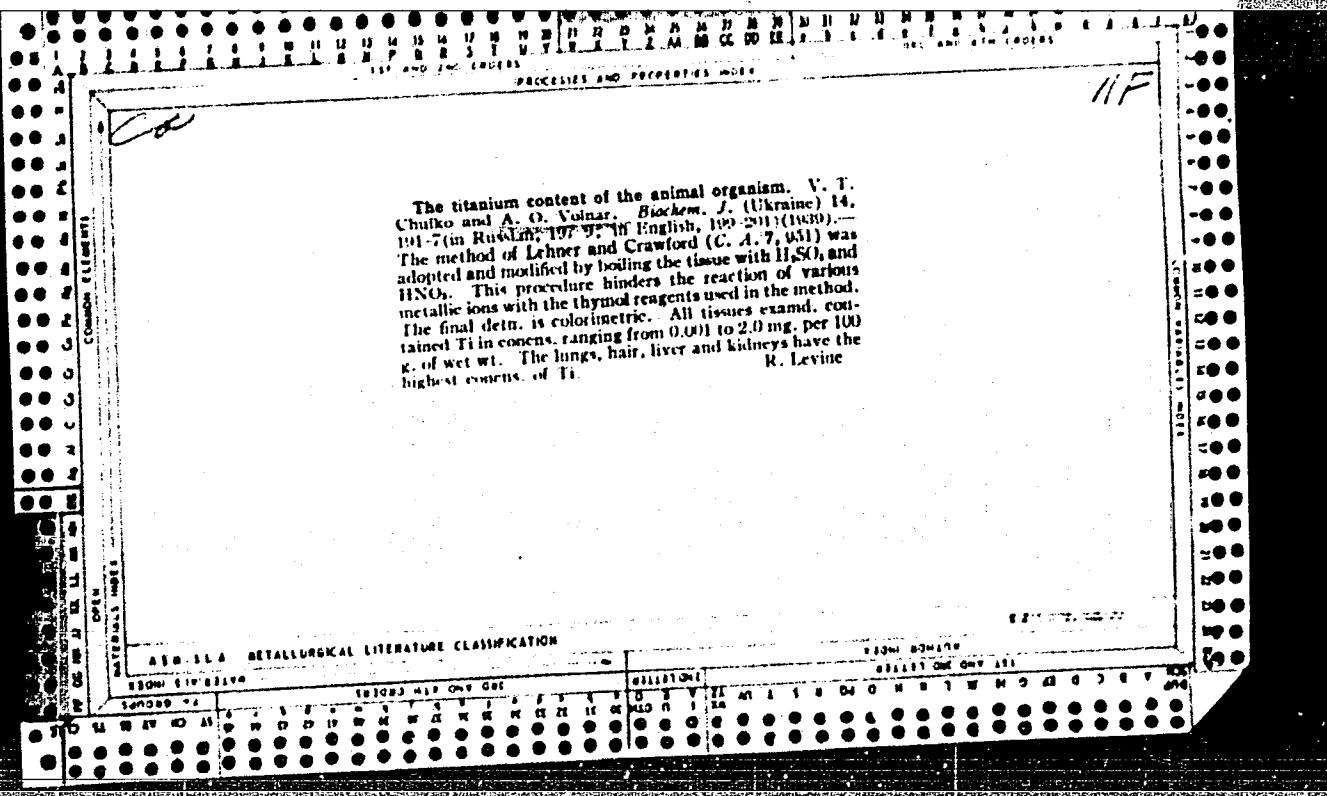


A simple electrode for rapid pH measurements in living tissue as well as some data regarding the changes of the pH value in the organs. A. D. Vothmar-Hall, *bid. med.* exp. U. S. S. R. 3, 411-4 (1937); *Chem. Zentr.* 1938, I, 3367-8. Using an improved app., equipped with a Pt needle which could be introduced to the desired depth to reach a given organ, measurements were made of the p. d. between the surface of the skin and the tissue of various organs, as the liver, intestine, brain. The results reported are comparable among themselves for the condition of life, narcosis, fatigue and death, both a brief period of life, a longer time after stoppage of the heart beat. M. G. M.

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"



Oxalic acid metabolism in the animal organism and the reliability of its determination. A. O. Vodnar and M. P. Babkin. *J. (Ukraine) 16*, No. 1, 81-110 (in Russian, 1957-8; in English, 108-9) (1940).—Kats. of oxalic acid (I) as Ca oxalate (II) is accurate only when more than 3 mg. % is present; protein increases the error, and Mg increases its poly. It was not possible to isolate it from the blood and organs as a true ppt., where its presence was proved microscopically or microchemically; nor was it possible to find true II in the blood by the method of Mers and Maugery (C. A. 26, 488; *Diagnostica et. lab.* (Napoli) *Nro. Mens.*, May, 1933). The sublimation method is also unsuitable for the blood and organs; in pure samples the required min. total is 2-4 mg. Plaschenträger's (C. A. 32, 8891) and Müller's esterification method was likewise unsatisfactory. Physiol. I is probably present in very low concn. in the blood and tissues as II in soln. 125 references. B. Cutoff

11F

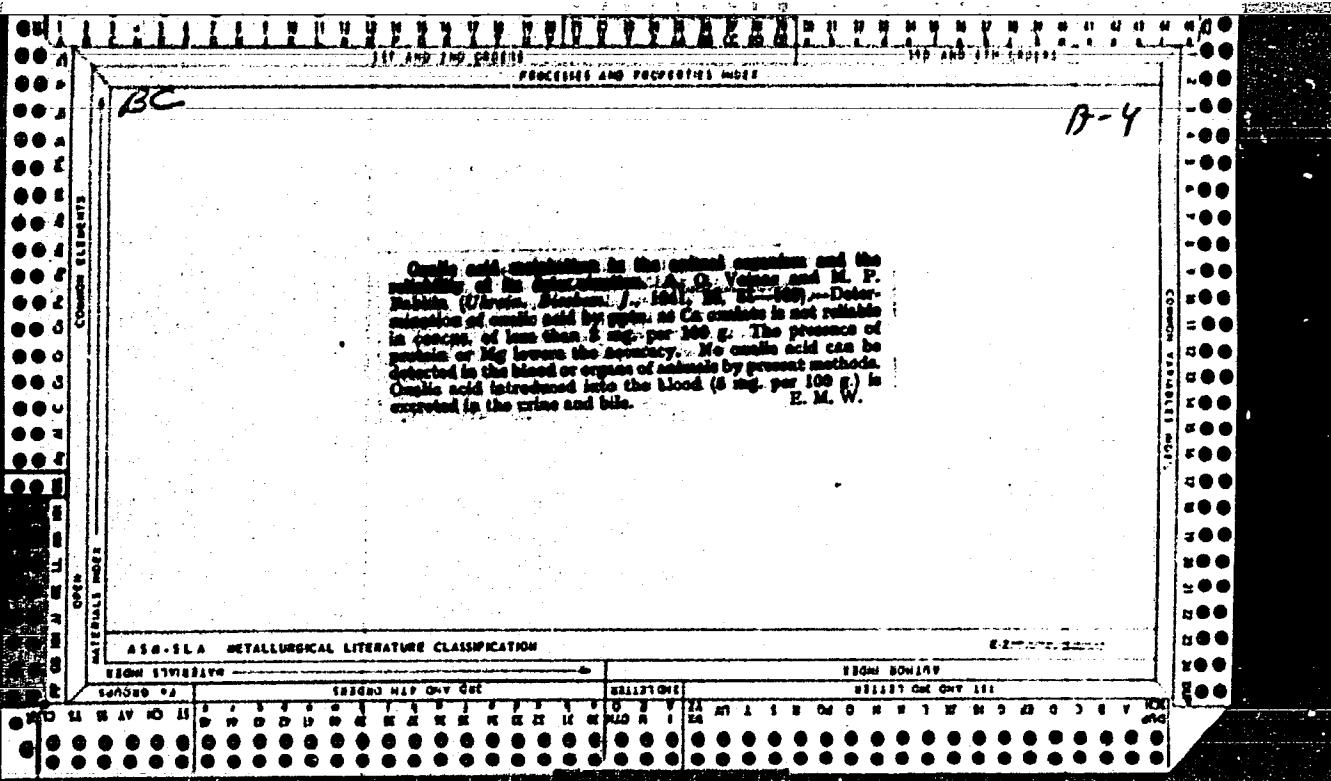
ca

Effect of oxalic acid on the potassium, calcium and magnesium contents of the blood serum. A. O. Voinar and M. P. Balkin. *J. Physiol.* U. S. S. R. 39, 345-51 (in English, 351) (1940); cf. C. A. 35, 3063c. —Doses of 30-50 mg./kg. wt. of oxalic acid, injected as 1% soln. into the blood stream, increase the Ca level and the Ca/Mg ratio and diminish the K/Ca value in the blood of dogs. The rise in Ca shows that the endocrine-neural regulation of mineral metabolism is impaired. This rise, effected possibly through mobilization of tissue reserves, is a protective mechanism against oxalic acid, which is bound to Ca and excreted through bile and urine. The excretion of Ca decreases 25%; that of Mg only slightly. This again shows protection against impoverishment of the body Ca. Introduction of 100 mg./kg. wt. and over binds Ca so quickly that its blood value falls sharply, and the Ca/Mg as well as K/Ca ratios change to dangerous values. Doses of 75 mg./kg. wt. bind Ca ions partially, but the protective mechanism causes a rise of Ca to abnormally high level. When large doses of oxalic acid are introduced subcutaneously they do not kill the animal, but the tissue Ca is bound, and accordingly blood Ca decreases. This is followed by mobilization of Ca reserves until the blood value is restored. Small doses of oxalic acid given to narcotized dogs have the same effect as a large dose for the normal dog. This is due to the narcotic anoxemia which results in increased production and excretion of oxalic acid by the body. The toxicity of the oxalate ion is specific and is not a result of a changed pH of the blood. 20 references. C. S. Shapiro

C. S. Shapiro

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"



ca

Free phenols of blood. A. O. Young and M. P. Babkin, *J. Physiol. U. S. S. R.* 30, 131-91 (in English, 1941); cf. *C. A.* 35, 2816^a.—Because of inaccuracy of the methods, the values given in the literature for normal content of free phenol in blood (1-2 mg. %) are too high. Actually at this content, symptoms of poisoning appear, and persist as long as the phenol remains free in the blood. Best results for free phenol were obtained by distn. for 0 hrs. according to Haas and Schlesinger (*C. A.* 19, 3404) and testing the distillate by the indophenol method of Houghton and Kelly (*C. A.* 31, 3184^a). Serum filtrates deproteinized with trichloroacetic or metaphosphoric acid, or with Na tungstate and sulfuric acid gave poor results in this test; added phenol could not be detected unless present in quantity above 1 mg. %, probably owing to adsorption of PhOH by the coagulants. Dogs injected with 20 mg./kg. body wt. of free phenol showed typical symp-

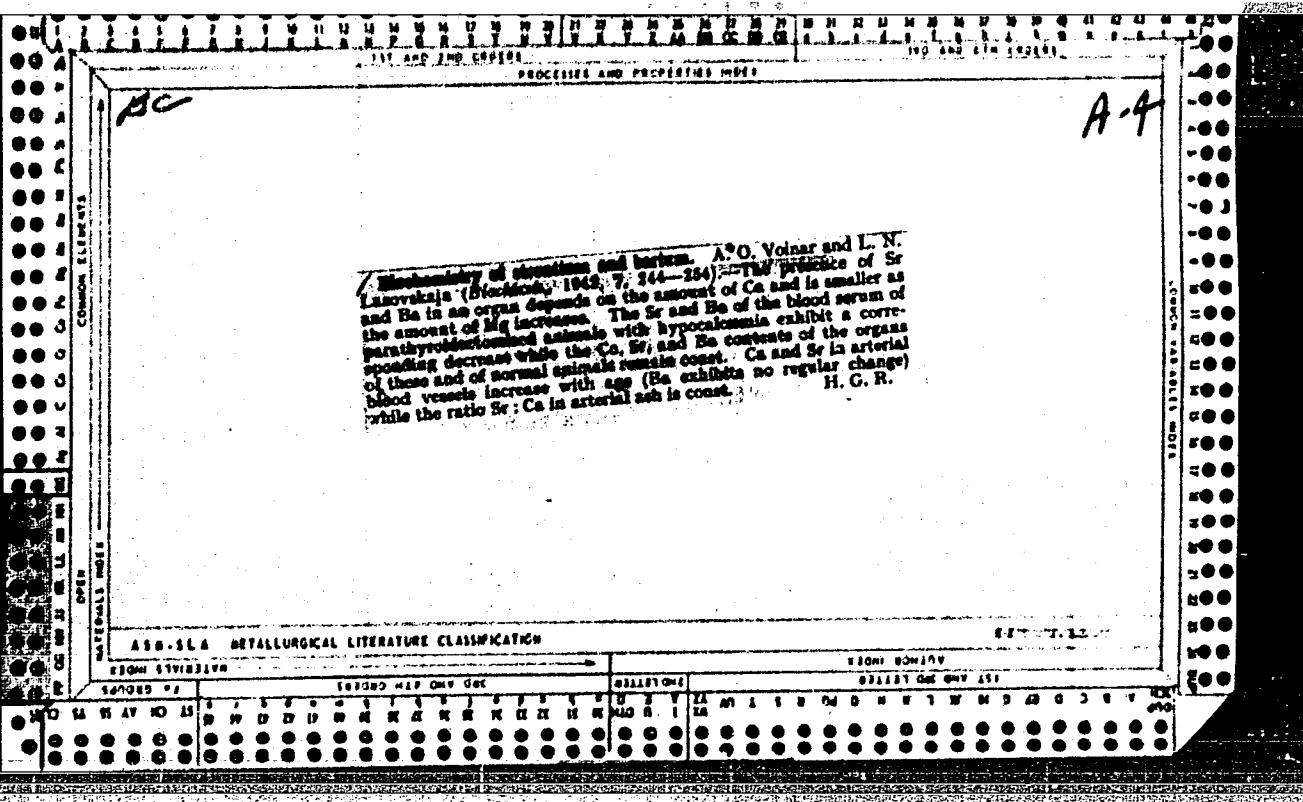
and phenol potassuring when the
reached the level of 1.00% mg. %, B.
menstruation. 24 references.

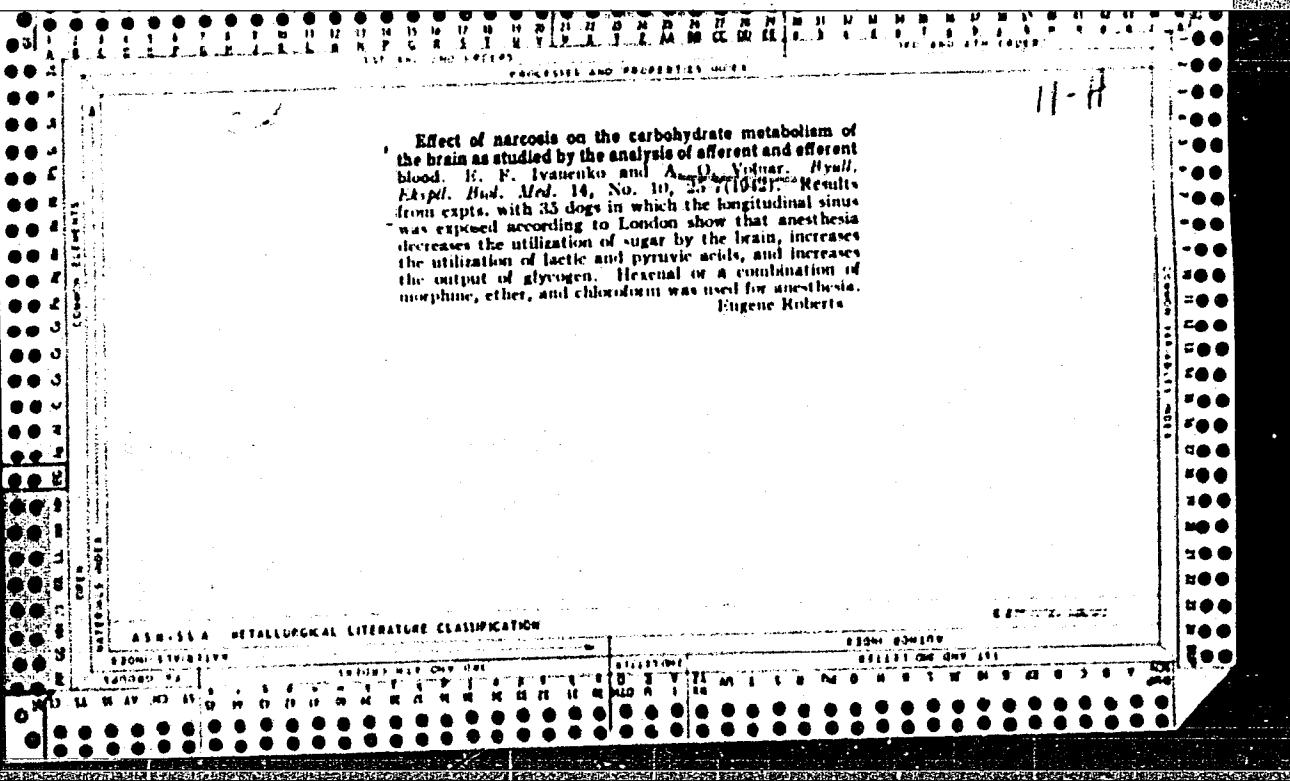
AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

1000 QUESTIONS

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"





C4

11-4

The effect of narcosis on the glycogen content of the brain. R. F. Iyanenko and A. O. Vinograd. *Russ. Fiziol. Biol. Med.* 14, No. 12, 70-76 (1949).—Experiments with 15 rabbits and 60 albino mice revealed that ether anesthesia significantly increased the glycogen content (I) of the brain. In fed rabbits, the increase was from 130.9 ± 8.2 to 223.6 ± 7.8 mg. of I per 100 g. of fresh tissue wt. In fasted mice, the I increased from 103.4 ± 6.2 to 128.8 ± 4.8 mg. while in fed mice the increase was from 100.0 ± 5.7 to 201.3 ± 4.1 . The anesthetic may act both by decreasing glycolysis and increasing the synthesis of I in the brain. Eugene Roberts

1.1.1. CATALOGUE LITERATURE CLASSIFICATION

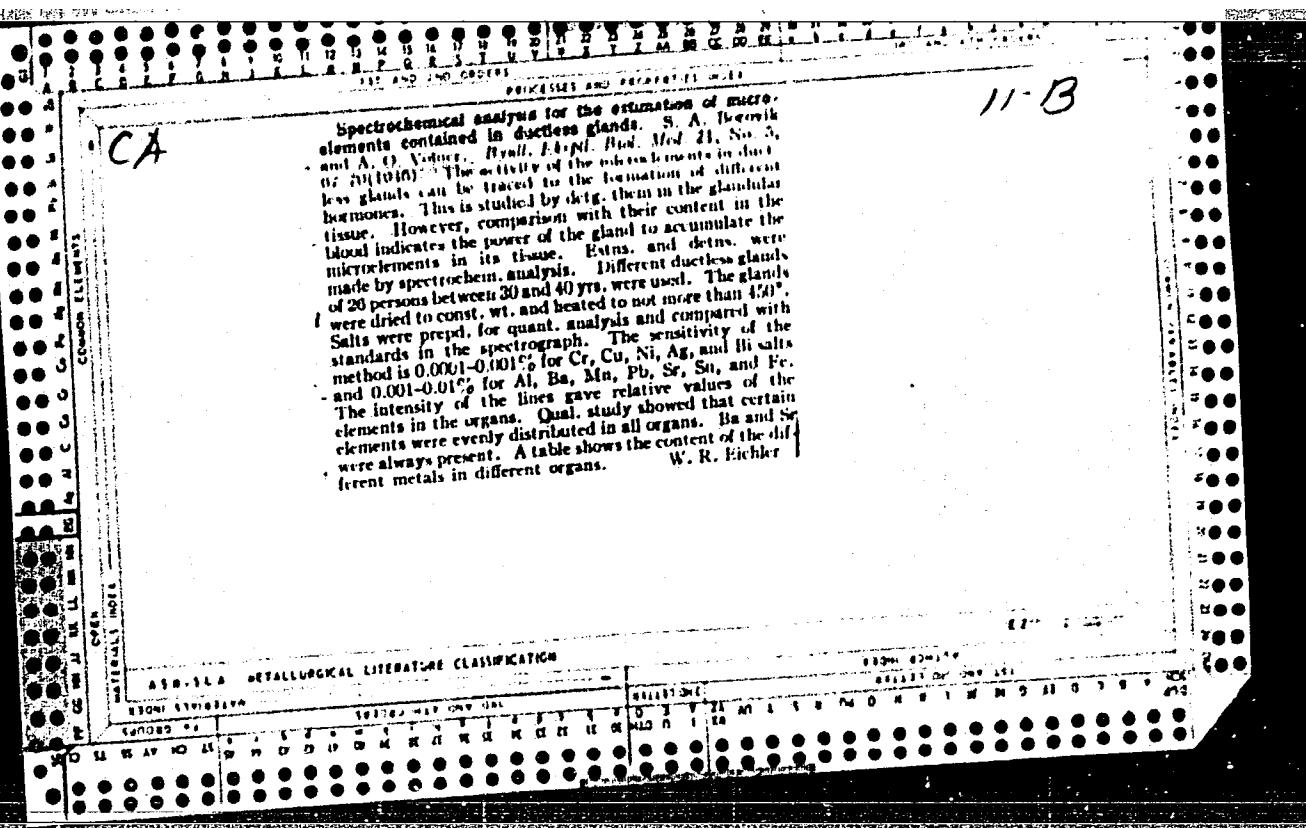
APPROVED FOR RELEASE: 08/09/2001

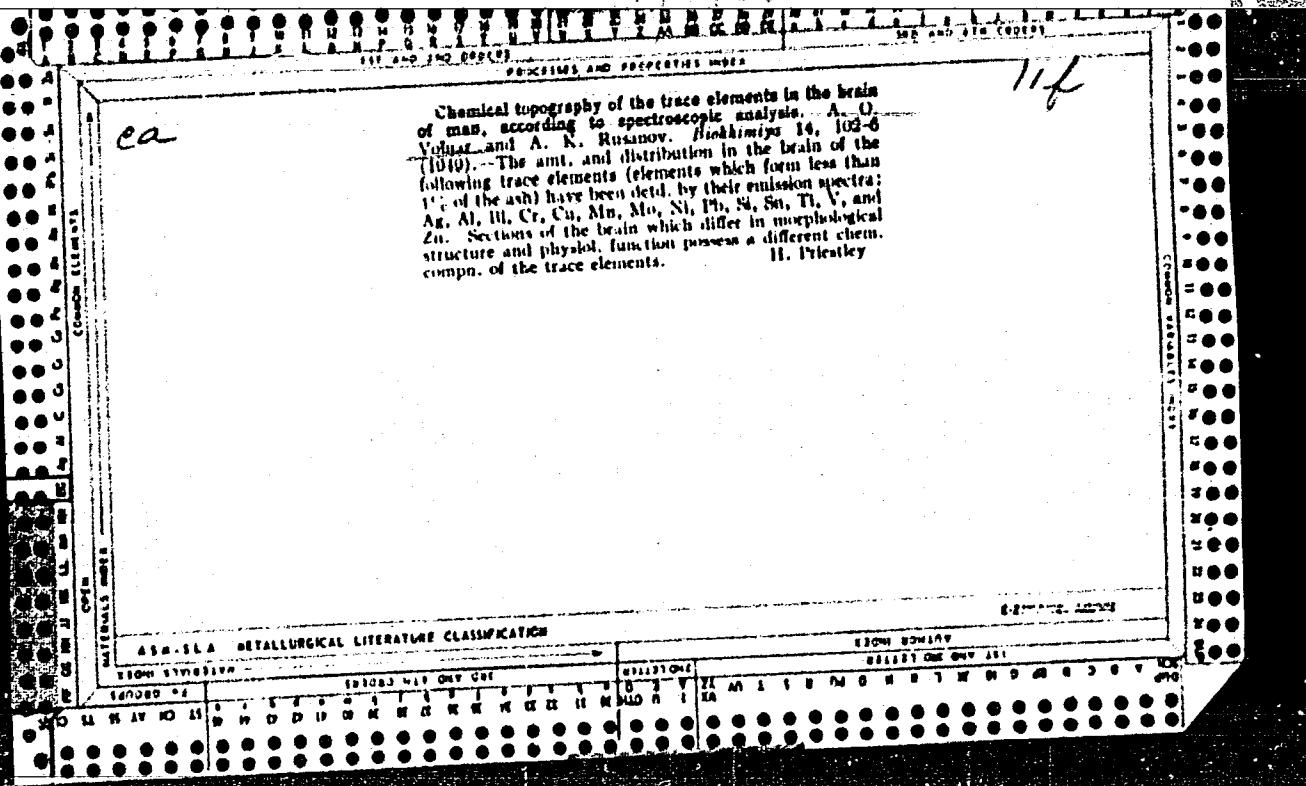
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*CA**11B*

Chemical and spectrographic determination of silicon in the presence of phosphorus in biological materials
A.N.O. Vinograd (Med. Inst., Stalin, Dubna). Radiotekhnika i elektronika, 11, No. 27(1966). The reduction of siliconmolybdate in the method of Isaacs (C.A. 18, 3199) is slight at pH 3.5, and increases until the max. color development is reached at pH 2.8. Orthophosphates and pyrophosphates do not yield colored products at pH 3.3-3.5; a yellow color begins to appear only at pH 3.0, and is rapidly intensified with an increase in acidity. The Si detn. must therefore be detd. at a pH higher than 3.0. But at a pH 3.0 and higher only a portion of the Si causes the color development. Before the addn. of $\text{NH}_4\text{molybdate}$, it is necessary to measure the pH and multiply the results by a factor. The factors for pH 3.3, 4.0, and 5.0 are, resp., 1.11, 1.00, and 0.451. The chem. method has been checked spectrographically. The Si content of a number of human and animal organs has been detd. - H.P.

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION





Chemical topography of microelements in human brain
by spectroscopic analysis. A. O. Volmer (Med. inst.
Stalino, U.S.S.R.) and A. R. Rumanov. *Fiziol. i med.*
(Rome) 17, 127-34 (1949).—See C.A. 43, 67194. C. S.

VOYNAR, A.O.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Biological Chemistry

The contents of trace elements in the liver as determined by spectrochemical emission analysis. A. O. Vcstar, Ural'sk Biokhim. Zhar. 21, 87-99 in Russian, 93-102 (1949).—Dog livers and the glycerol exts. thereof were ashed at no more than 450° in a Pt crucible with a trace of HNO₃. Twenty-five elements were detd. In the ash which was placed in the lower anode of an elec. arc. The arc was burnt for 6 min., and exposures were made at the beginning of the first and the end of the sixth min., to be sure to get both the highly and difficultly volatile elements. A Hilger-spectrograph was used in the region of 2400-3500 Å. B could not be detd. as the C arc contained B; no attention was given to Na, K, Ca, Mg, Fe, and P. As a rule the glycerol ext. contains less of the element than the whole liver, with the exception of Cu and Ag, where both contain the same amt. and Sn, where the glycerol ext. contains more. The presence of Be, Zr, Rh, Pd and In was shown for the first time. Per 100 g. of dried liver, the following values were found: Al 1; Si up to 30; Ti 0.01 mg.; V trace; Mn 1 mg.; Co present in variable amts., Ni 0.1 mg. (These last two detns. are of special importance, as various workers claim that Co and Ni do not occur in the liver of warm-blooded animals); Cu up to 8 mg.; Zn and Cd are present, here the dithizone method must be used for quant. detn.; Mo 0.05; Ag 0.025; Sn 0.2; Pb up to 0.5 mg.; and Be, Zr, Rh, Pd, In, Ga, Li, Nb, Ba, Tl, and Bi in extreme traces. There is no direct relation between the enzymic power of the glycerol ext. and its content of Al, Si, Ti, V, and Pb.

Werner Jacobson

Vojnar, A.O.

USSR?

QUESTION: The role of zinc in the organisms of animals and man
ANSWER: Zinc is a trace element which is required for normal growth and development of all living organisms. It is an essential nutrient for man and other animals. Zinc is involved in many physiological processes such as protein synthesis, DNA and RNA metabolism, enzyme activation, and hormone regulation. Zinc deficiency can lead to various health problems, including impaired immune function, skin lesions, and stunted growth. Zinc is found in various food sources like meat, fish, eggs, and whole grains.

CA

117

Biochemistry of cobalt. A. O. Volnar. *Uspkhi Sovremennoj Biol.* 30, 345-56 (1970). Metabolism of Co₂₊ and its effects on growth, blood formation, and the antianemic factor (vitamin B₁₂) are reviewed. 81 references.
Julian F. Smith

187

VOYHAR, A.O.

[Biological role of the trace elements in human and animal organisms] Biologicheskaiia rol' mikroelementov v organizme zhivotnykh i cheloveka. Moskva, Sovetskaiia nauka, 1953. 494 p.

(MLRA 6:10)
(Biochemistry)

VOYNAR, A.O.

Toxicity of cadmium salts. Gig. sanit., Moskva no. 2:16-18 Feb
1953. (CLML 24:2)

1. Of the Department of Biochemistry of Stalino Medical Institute.

VOYNAR, A.O.

Amount of microelements in the nuclei of nerve cells as measures by
emission spectra. Biokhimiya 18, 29-33 '53. (MLRA 6:1)
(CA 47 no.15:7625 '53)

1. Stalin Med. Inst., Stalino-Donbass.

USSR/Biology - Biogeochemistry Nov/Dec 53

"Review of A.O. Vaynshteyn's Book 'Biologicheskaya Rol'mikroelementov v Organizme Zhivotnykh i Cheloveka' (The Biological Role of Trace Elements in Animal and Human Organisms)," (V.V. Koval'skiy, reviewer)

Usp Sov Biol, Vol 36, No 3(6), pp 395-398

The reviewer first briefly surveys the field of biogeochemistry, then gives a short summary of the book and, finally, criticizes the author's treatment of several incidental matters. He says that the author gives a true picture of the

273T6

present state and development of the biochemistry and physiology of trace elements and of their significance in agriculture and biology. The book is divided into 18 chapters. The first and last are on theory and the remainder on the biogeochemistry of the various trace elements. According to the reviewer, the book is well written and can be used as a handbook on the subject.

273T6

VOYNAR, A.O.

All-Union conference on the utilization of minor elements in
animal husbandry. Usp. sovr. biol. 38 no.2:259-260 S-O '54.
(MLRA 8:1)

(MOSCOW--BIOCHEMISTRY--CONGRESSES)
(STOCK AND STOCK BREEDING)
(TRACE ELEMENTS)

VOYNAR, A.O.

Use of emission spectrum analysis in biology and medicine. Izv.
AN SSSR. Ser. fiz. 19 no. 2:153-154 Mr-Ap '55. (MLRA 9:1)

1. Stalinskiy gosudarstvennyy meditsinskiy institut imeni A.M.
Gor'kogo. (Tartu--Spectrum analysis--Congresses)

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CIA-RDP86-00513R001861120003-9

~~VOYNAR, A.O.~~

~~VOYNAR, A.O., professor, doktor meditsinskikh nauk.~~

Minor elements and the organism. Nauka i zhizn' 22 no.2:7-9 p '55.
(Trace elements) (Physiological chemistry) (MIRA 8:3)

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CIA-RDP86-00513R001861120003-9"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

Marion is the keeper of the eye of animals and man. A.

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CIA-RDP86-00513R001861120003-9

VOYNAR, V. V.

ASATIANI, Vladimir Samsonovich; VOYNAR, A. O., professor, otvetstvennyy
redaktor; STRUCHKOV, Yu.T., redaktor izdatel'stva; ZIL'ENKOVA,
Ye.V., tekhnicheskiy redaktor

[Biochemical photometry] Biokhimicheskaya fotometriya. Moscow,
Izd-vo Akad.nauk SSSR, 1957. 835 p. (MLB 10:10)
(PHOTOMETRY), (BIOCHEMISTRY)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

Voyner, A.O.

PLATE I BOOK EXPLORATION

Sov/100

24(7)

Ukr. Universitet

Materialy k Vsesoyuznemu soveshchaniyu po spektroscopii, 1956.
S. II. Atomnaya spektroscopia [Materials of the 10th All-Union Conference on Spectroscopy, 1956, Vol. 2, Atomic Spectroscopy]
Drev' Ind.-tekhnicheskogo uchebnyika, 1958. 508 p. (Series: Itas;
Fizicheskaya shkola, vyp. 4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Konsiliya po spektroscopii.

Editorial Board: G.I. Landsberg, Academician. (Resp. Ed.);

S.S. Repertor', Doctor of Physical and Mathematical Sciences;

I.D. Fabrikant, Doctor of Physical and Mathematical Sciences;

V.M. Kostin, Candidate of Physical and Mathematical Sciences;

V.G. Korotkov, Candidate of Technical Sciences; G.M. Rayakay,

Candidate of Physical and Technical Sciences L.V. Klimovskaya,

(Deceased), Doctor of Physical and Mathematical Sciences; V.V. Milyanochuk,

Doctor of Physical and Mathematical Sciences; A.Ye.

M.I. A.Z. Olsztyk, Prof. M.I. T.V. Samoyuk.

Publisher: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel

using spectrum analysis in various industries.

COVERAGE: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of atomic and spark spectroscopy, spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of oxygen content or metals by means of isotopes, tables and atlases of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochimistry in metallurgy, and principles and practice of spectrophotometric analysis.

Card 2/25

Materials of the 10th All-Union Conference (Cont.)

Sov/100

Silin, V.M. Mechanism of the Entry of Electrode Substance Into the Luminous Cloud of a Condensed Spark Discharge

Martynov, Ye. G. Studying the Spark Discharge in Rectangular Electrodes by the Spectral Scanning Method

Qureishi, D.B., and V.K. Prokof'yev. Temperature Distribution in Low-Voltage and High-Voltage Spark Discharge Plasma

Voronezh, A.O. Simultaneous Application of Spectrographs, Microphotometers, Electrophoresis, and Comparative Methods for the Determination of Microelements of Low Concentration in Biological Specimens

Abramzon, I.S., and A.M. Moshkovskiy. High-voltage Spark Discharge Generator With Electronic Control

Korotkov, I.A., L.V. Lipis, and V.V. Pashin. Ultraviolet Absorption Spectra of Plutonium Compounds

Card 11/21

VOYNAR, A.O.

Simultaneous use of spectrographic, microchemical, electro-phoretic, and counting methods for the determination of small concentrations of trace elements in biological specimens.
Fiz.sbor. no.4:170-173 '58. (MIRA 12:5)

1. Stalinskiy meditsinskiy institut imeni A.M.Gor'kogo.
(Trace elements--Analysis)

PEYVE, Ya.V., glav. red.; ALIYEV, G.A., akademik, red.; ABUTALYBOV, M.G., prof., red.; BERZIN, YA.M. [Berzins,J.], akademik, red.; VINOGRADOV, A.P., akademik, red.; VLASYUK, P.A., akademik, red.; VOYNAR, A.O., prof., red.; DROBKOV, A.A., prof., red.; KATALIMOV, M.V., prof., red.; KOVAL'SKIY, V.V., red.; KOVDA, V.A., red.; KEDROV-ZIKHMAN,O.K., akademik, red.; LEONOV, V.A., akademik, red.; PETERBURGSKIY, A.V., prof., red.; SINYAGIN, I.I., red.; CHERNOV, V.A., prof., red.; CHANISHVILI, Sh.F., red.; SHKOL'NIK, M.Ya., prof., red.; SHCHERBAKOV, A.P., kand. sel'khoz. nauk, red.; VENGRANOVICH, A., red.; DYMARSKAYA, O., red.; KLYAVINYA,A [Klavina, A.], tekhn. red.

[Use of trace elements in agriculture and medicine; transactions]
Primenenie mikroelementov v sel'skom khoziaistve i meditsine; trudy.
Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1959. 706 p. (MIRA 14:12)

1. Vsesoyuznoye soveshchaniye po mikroelementam. 3d, Baku, 1958.
2. Chlen-korrespondent Akademii nauk SSSR (for Feyve, Kovda). 3. AN Azerbaydzhanskoy SSR (for Aliyev). 4. AN Latviyskoy SSR (for Berzin).
5. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk, Kedrov-Zikhman). 6. AN Belorusskoy SSR (for Leonov).
7. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sinyagin, Koval'skiy). 8. Chlen-korrespondent AN Gruzinskoy SSR (for Chanishvili).

(Trace elements) (Biochemistry) (Agriculture)

VOYNAR, A.O.} DEL'VA, V.A.

Some results and objectives for further research on trace elements
in medicine in the light of the decision of the coordinating committee
on the problem "Biological role of the trace elements." Vop.med.
khim. 6 no.4:439-441 J1-Ag '60. (MIRA 14:3)
(TRACE ELEMENTS)

VOCYNAK, A.S.
CA

//A

The action of radiant energy on colloidal stability. I
The action of x-rays on the stability of serum colloids and
on the isoelectric point of serum in experiments in vitro.
A. S. Vojner and M. K. Alanaev. *Bull. biol. med. et phys. T. R. S. S. S.*, 20: 4 (1940) (in English). The col-
loidal stability of normal dog serum is generally decreased
by irradiation with x-rays at 84 kv., 4 m., and focal dis-
tance of 24 cm. with a 0.6 mm. Al filter when a dose of
1000, is used. It was not always possible to establish a
direct quant. relationship between the magnitude of the
dose, the character of the radiation and the decrease of
stability, and occasional samples of irradiated serum did
not change in stability for some undtd. reason. The α
and β isoelec. points were shifted to the alk. side during
the decrease in stability of the serum. S. A. Kartala

VÖTHAR, O. I.

Proteins

Effect of age on changes in the proteinins of blood serum, Ukr. biokhim. zhur., 22, No. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1955. Unclassified.

VOYNAR, O.I.

The effect of the central nervous system on the biosynthesis of thyroxine. O. I. Volmar and R. G. Lipskaya
(Stalin Med. Inst., Donbass). *Ukrain. Biokhim. Zhur.* 27, 253-257 (Russian summary, 204 (1955). — As early as 3 hrs. after the injection into guinea pigs of 8 mg. of thyrotropic hormone of the hypophysis the thyroxine of the blood increases and continues to do so for a period of 18 hrs., when it begins to fall gradually, reaching its normal level at the end of 48 hrs. The repeated injection of the thyrotropic hormone under a specific set of environmental conditions results in the establishment of conditioned reflex responses, so that the injection of distilled H₂O under a similar set of environmental conditions into the conditioned animal calls forth an increase in the blood thyroxine. The inclusion of ¹³¹I into thyroxine following its injection into the body reaches its max. in 48 hrs., after which it begins to fall reaching a final min. at the end of five days. The thyrotropic hormone of the hypophysis activating the endocrine function of the thyroid gland considerably enhances the process of ¹³¹I inclusion into thyroxine, reaching a max. in 24 hrs. and hastens the liberation of ¹³¹I by the thyroxine into the organism after 24 hrs. These phenomena can also be effected by conditioned reflex reactions. Therefore, it is concluded that thyroxine biosynthesis is under the control of the central nervous system. *R.S.L.*

Dear Bishar,

VOYNAR, O.I.; GALAKHOVA, N.V.

Barium in the eye in man and animal. Ukr.biokhim.zhur. 27 no.1:
101-107 '55. (MLRA 8:6)

1. Kafedra biokhimii medichnogo institutu, m. Stalino (Donbass).
(BARIUM, metabolism,
eye)
(EYE, metabolism,
barium)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYNAROVICH, M.Y.

Use of the electrohydrodynamic analogy method in studying
a flow past symmetrical bodies near the wall. Izv. SG AH SSSR
no.2. Ser. tekhn. nauk no.1:131-133 '64. (MIRA 17:8)

1. Novosibirskiy institut inzhenerov zheleznodorozhnogo
transporta.

V
SORIN, M.V.; VOYAROVSKAYA, Ye.P.; PEGOYEV, P.I.; POZIN, Z.S.

Routine and conclusive disinfection in certain intestinal and
droplet infections with small doses of disinfectants. Trudy
LSGM 32:304-314 '57. (MIRA 12:8)

1. Kafedra epidemiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof.V.A.Bashenin).
i Leningradskaya gorodskaya dezinfektsionaya stantsiya (glavnnyy vrach - V.V.Yeframov).

(ANTISEPSIS AND ASEPSIS

disinfect. in rooms with chloramine solution (Rus))

(CHLORAMINES

solution in room disinfect. (Rus))

S/137/62/000/004/109/201
A052/A101

AUTHORS: Pzhegalinski, S., Bonk, R., Voynarovski, Ya.

TITLE: The effect of Ni content on the fatigue strength of structural steels

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 47, abstract 4I276
("Ustalostn. prochnost' mater. i elem." Mater. konf. v Varshave
12-14 maya 1960 g., Varshava, 1961, 13-14)

TEXT: The fatigue strength of three Polish-made structural steels was investigated: 35XM(35KhM) (.15 - 0.4% Ni), 35XHM (34KhNM)(1.3 - 1.7% Ni) and 35XH3MA (35KhNZMA)(2.5 - 3.0% Ni). It is maintained that Ni content does not improve the fatigue strength of steel. For manufacturing machine elements working under variable load conditions it is not mandatory to use steels with a high Ni content, but it is necessary to use them for elements with large cross-sections, since an addition of Ni facilitates obtaining a uniform tempered martensite structure over the whole cross-section.

T. Rumyantseva

[Abstracter's note: Complete translation]
Card 1/1

BEREZHNOY, A.S.; VOYNARAL'SKIY, Kh.P.

Petr Petrovich Budnikov; 70th birthday. Ukr.khim.zhur. 21 no.6:
822-824 '55. (MLRA 9:5)
(Budnikov, Petr Petrovich, 1885-)

VOYNARAL'SKII KH.P.

USER/ Scientists - Chemistry

Card 1/1 Pub. 116 - 29/29

Authors : Berezhnoy, A. S., and Voynaral'skii, Kh. P.

Title : Petr Petrovich Budnikov

Periodical : Ukr. khim. zhur. 11/6, 822-824, Dec 1955

Abstract : Eulogy is presented honoring the 70-th birthday of Academician Petr Petrovich Budnikov, Soviet researcher and specialist in chemistry and technology of silicates. Illustration.

Institution :

Submitted :

MOGILEVSKIY, M.Sh.; MAL'CHEVSKAYA, V.I.; VOYNAROVSKAYA, Ye.P.

Mechanism of activation of chloramine in aqueous solutions.
Gig.1 san. 24 no.8:77-80 Ag '59. (MIRA 12:11)

1. Iz laboratorii Leningradskoy gorodskoy dezinfektsionnoy
stantsii.
(ANTISEPTICS, HALOGEN, chemistry)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNAROVSKIY, V.V. (Kiev)

"Health day". Tel'd i akush. 24 no.2:54 Fe '59. (MIRA 12:3)
(KIEV--INDUSTRIAL HYGIENE)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYNAROVSKIY, V.V., (Kiev)

Council of public health cooperation. Fel'd. i akush. 21 no.6:36-37
Je '56. (MLRA 9:9)
(UKRAINE--PUBLIC HEALTH)

VOYNAROVSKIY, V.V. (Kiyev)

Public-spirited factory workers. Fel'd. i akush. 26 no.10:48-
49 0 '61. (MIRA 14:11)
(FACTORY SANITATION)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNAROVSKIY, V.V. (Kiyev)

Health education in influenza control. Vol'd. i skush. 23 no.8:51
Ag '58 (MIRA 11:8)
(INFLUENZA)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYMAROVSKY, V. V.

Precise method for planning and evaluating mechanization. Sakh.
prom. 30 no.8:32-34 Ag. '56. (MLRA 9:11)

1. Altayskiy salchaveklotrest.
(Sugar industry)

VOYNAROVSKIY, V.V.

Improving the work of the administrative apparatus. Sakh.prom.
28 no.4:5-8 '54. (MLRA 7:7)

1. Altayakiy sakhsveklotrest.
(Sugar industry)

VOYNASH, V., mashinist kombayna; MAMAY, N., Geroy Sotsialisticheskogo
Truda

We head toward communism. Sov.shakht. 10 no.9:3 S '61.
(MIRA 14:8)

1. Shakhta №.77 Luganskogo sovnarkhoza. (for Voynash).
2. Brigadir shakhty №.1 "Sukhodol'skaya" tresta Krasnodonugol'
(for Mamay).

(Coal mines and mining--Labor productivity)

VOYNER, R.A.

Voyner, R.A. "On sources of blood supply for the vena cava inferior in man", Trudy Voyen.-mor. med. akad., Vol. XI, 1948, p. 227-33,-Bibliog: 11 items.

SO: u-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

VOYKULESKU, V. [Voiculescu, V.]; BROSHTYANU, R. [Brostianu, R.];
VOYNESKU, I. [Voynescu, I.]; STOYKA, I.

Electrical activity of the cortical and subcortical formations
following ligature of the carotid arteries in cats. Nauch. trudy
Inst. nevr. AMN SSSR no.1:263-270 '60. (MIRA 15:7)

1. Institut nevrologii imeni Pavlova Akademii Rumynskoy
Narodnoy Respubliky, Bukharest.

(CEREBRAL CORTEX) (CAROTID ARTERY—LIGATION)
(ELECTROENCEPHALOGRAPHY)

VOYNESKU, S.

DREGENESCU, S.; IOHESCU, I.; VOYNESKU, S.; STERIADE, M.

Subacute and chronic viral encephalopolioymyelitis and its relation
to amyotrophic sclerosis [with summary in French]. Zhur.nevr. i
psikh. 57 no.11:1409-1417 '57. (MIRA 11:1)

1. Institut nevrologii Rumynskoy Akademii nauk
(POLIOMYELITIS, pathology,
relation to amyotrophic lateral sclerosis (Rus))
(AMYOTROPHIC LATERAL SCLEROSIS, pathology,
relation to polio. (Rus))

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNGORTEN, L. M.

VOYNGORTEN, L. M. "History of Societies for the Control of Infant Mortality in Russia." Cand Med Sci, Central Inst for the Advanced Training of Physicians, 2 Feb 54. (Vechernaya Moskva, 22 Jan 54)

SO: SUM 168, 22 July 1964

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNICH, A. I.

Tobacco Industry

Past and present. Tabak 14, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

ACC NR: AT6037042

SOURCE CODE: UR/0000/66/000/000/0036/0043

AUTHOR: Vysotskiy, B. F. (Doctor of technical sciences; Professor); Voynich, B. A. (Candidate of technical sciences)

ORG: none

TITLE: Power of radar scanning of limited sections of the earth's surface

SOURCE: Moscow. Aviatsionnyy institut. Teoriya i tekhnika radiolokatsii (Radar theory and techniques); sbornik statey, no. 1. Moscow, Izd-vo Mashindstroyeniye, 1966, 36-43

TOPIC TAGS: radar, radar scanning, ground surveillance radar, radar engineering

ABSTRACT: Strip-scanning of the earth's surface by a radar mounted on a craft is considered. Calculations are made for two types of scanning, both of which scan narrow, fixed-width strips of the earth's surface from a preassigned altitude. In the first type the earth is scanned in the direction of the flight; with a scanned Q. ray; in the second, the earth is scanned sideways with respect to the direction of flight with a fixed ray. In the design of such a radar, it is more convenient to use the relationship of the threshold signal to the absolute magnitude of the echo signal than to use only the absolute magnitude of the echo signal. Calculations indicate that the best results are obtained for strip-scanning at points distant from the craft. The width of the scanned strip is limited by the radar antenna

Card 1/2

UDC: 621.396.967(04)

ACC NR: AT6037042

aperture in the vertical plane. The above calculations do not compensate for the earth's curvature or attenuation of the radar signal in the atmosphere, Orig. art. has: 5 figures and 23 formulas.

SUB CODE: 17/ SUBM DATE: 15Jul66/ ATD PRESS: 5108

Card 2/2

ROGOVIN, D.; VOYNICH, L.

Tractors used in construction. Za rul. 21 no.6:10-11 Je '63.
(MIRA 16:11)
1. Glavnyy inzh. Mogilevskogo zavoda imeni Kirova (for Rogovin).
2. Zamestitel' glavnogo konstruktora Mogilevskogo zavoda imeni
Kirova (for Voynich).

L-4872-66

ACC NR: AP5026565

SOURCE CODE: UR/0286/65/000/019/0128/0128

INVENTOR: Voynich, L. K.; Zaytsev, I. K.; Sidorov, N. A.; Khazey, A. F.

ORG: none

TITLE: Pneumohydraulic shock absorber. Class 63, No. 175401

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 128

TOPIC TAGS: shock absorber, pneumohydraulic shock absorber

ABSTRACT: An Author Certificate has been issued for a pneumohydraulic shock absorber (see Fig. 1) for load-carrying vehicles. The unit contains the following: a primary cylinder filled with a liquid and compressed gas (basic elastic components); a cover mounted on the lower end of the primary cylinder, which serves as the lower shock-absorber support; a casing surrounding the primary cylinder and forming a circular reservoir for collecting the working liquid; a plunger pump driven by shock-absorber oscillations and located inside the primary cylinder; a flow channel connecting a high-pressure cavity with the plunger pump and the reservoir; a back-pressure cylinder concentrically located in the primary cylinder, filled with compressed gas and working liquid, and connected to a circular cavity between the primary and back-pressure cylinders through calibrated holes and a check valve (used for vibration damping); and a cover mounted on the upper end of the back-pressure cylinder and serving as the upper shock-absorber support. To prevent leakage of the working liquid and compressed

Card 1/3

UDC: 629.11.012.82

09010795

L 4872-66

ACC NR: AP5026565

gas from the primary cylinder into the reservoir when the shock absorber is extended, the unit is equipped with a valve set for minimum permissible pressure in the primary-cylinder high-pressure cavity. This valve is located in the primary-cylinder cavity and connects it to the working cavity of the plunger pump. Orig. art. has: 1 figure. [LB]

SUB CODE: IE / SUBM DATE: 14Jul62/ ATD PRESS: 4136

BC

Card 3/3

L 4872-66

ACC NR: AP5026565

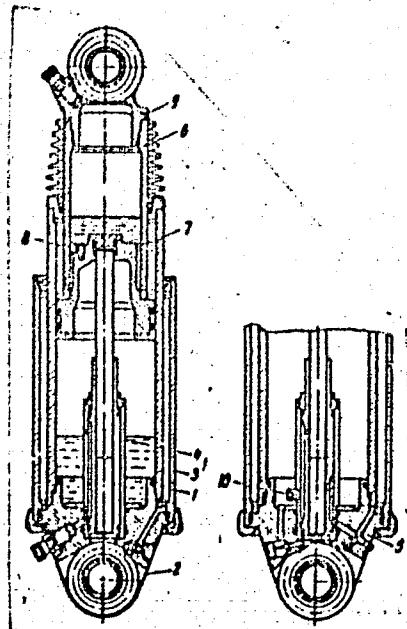


Fig. 1. Pneumohydraulic shock absorber

1 - Primary cylinder; 2 - lower cover;
3 - casing of reservoir for collecting
working liquid; 4 - plunger pump; 5 - flow
channel; 6 - back-pressure cylinder;
7 - calibrated hole; 8 - check valve;
9 - upper cover; 10 - safety valve.

Card 2/3

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNICH, L.K., inzh.; SMIRNOV, B.I., inzh.

Increase of the reliability and longevity of the D-357G scraper.
Stroi. i dor. mash. 10 no. 8:11-12 Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYNICH, L.K.; GORELIK, Z.M.; ZHURAVLEV, V.N.; CHIRKOV, A.G.; BOL'SHAKOV,
B.N., red. izd-va; UVAROVA, A.F., tekhn. red.

[Catalog of parts for MAZ-200 motortrucks, MAZ-200B saddle-type
tractors, and MAZ-205 dump trucks] Katalog detalei gruzovogo avto-
mobilja MAZ-200, sedel'nogo tiagacha MAZ-200B i avtomobilja-samosvala
MAZ-205. Moskva, Gos. nauchno-tekn. izd-vo mashinostroit. lit-ry,
1961. 430 p. (MIRA 14:8)

1. Minskiy avtomobil'nyy zavod. 2. Rabotniki Otdela glavnogo kon-
struktora Minskogo avtomobil'nogo zavoda (for all except Bol'shakov,
Uvarova)

(Motortrucks—Catalogs) (Dump trucks—Catalogs)

GORELIK, Z.M., inzhener; VOYNICH, I.K., inzhener; GILELES, L.Ye., redaktor;
KOSOROTOV, B.V., inzhener-podpolkovnik, redaktor; SOLOMONIK, R.L.,
tekhnicheskiy redaktor

[Catalog of spare parts for MAZ-200 and MAZ-200G trucks, MAZ-200V
truck tractor and MAZ-205 dump truck] Katalog zapasnykh chastei
gruzovykh avtomobilei MAZ-200 i MAZ-200G, sedel'nogo tiagacha
MAZ-200V i avtomobilia-samosvala MAZ-205. Moskva, Voennoe izd-vo
Ministerstva oborony SSSR, 1956. 260 p. (MLRA 10:2)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. Avtomobil'noye
upravleniye. 2. Zametitel' glavnogo konstruktora Minskogo avto-
mobil'nogo zavoda (for Gileles)
(Motortrucks—Apparatus and supplies)

VOYNICH, L.K., inzh.; CORELIK, Z.M., inzh.; ZHURAVLEV, V.N., inzh.;
CHIRKOV, A.G., inzh.; BOL'SHAKOV, B.N., red. izd-va; UVAROVA,
A.F., tekhn. red.

[Catalog of parts for the MAZ-501 logging tractor and the
MAZ-502 and MAZ-502A motortrucks] Katalog detalei lesovoznogo
tiagacha MAZ-501 i gruzovykh avtomobilei MAZ-502 i MAZ-502A.
(MIRA 15:3)
Moskva, Mashgiz, 1961. 447 p.

1. Minskay avtomobil'nyy zavod. 2. Otdel glavnogo konstruktora
Minskogo avtomobil'nogo zavoda (for Voynich, Gorelik, Zhuravlev,
Chirkov).

(Motortrucks) (Tractors)

VOYNICH, M.K., assistent

Some problems of the clinical aspects and pathomorphology in
tubal pregnancy. Sbor. nauch. trud. Ivan. gos. med. inst. no.28:
248-254 '63. (MIRA 19:1)

1. Iz kafedry akusherstva i ginekologii (zav. kafedroy - dotsent
M.A. Timokhina) i histologii i embriologii (zav. kafedroy - prof.
Ye.A. Kirillov) Ivanovskogo gosudarstvennogo meditsinskogo institu-
ta (rektor - dotsent Ya.M. Romanov) na baze rodil'nogo doma Nr. 3
(glavnnyy vrach - N.K. Berashevich).

VOYNICH, Nikolay Filippovich; PUTOLOV, B., red.

[Large-panel construction from cellular concrete] Krupnoe-panel'noe stroitel'stvo iz iacheistykh betonov. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1963. 79 p. (MIRA 18:3)

1. Glavnnyy tekhnolog Upravleniya stroitel'stva Sverdlovskogo sovnarkhoza, Sverdlovskaya oblast' (for Voynich).

LEVIN, M.; VOYNICH, N.; BEN'YAMINOVICH, I.

New technique for manufacturing slabs of cellular concrete.
Na stroi. Ros. no.9:19-21 S '61. (MIRA 14:10)

1. Rukovoditel' laboratorii tekhnologii avtoklavnykh izdeliy
Nauchno-issledovatel'skogo instituta po stroitel'stvu, Sverdlovsk
(for Levin). 2. Glavnnyy tekhnolog upravleniya stroitel'stva
Sverdlovskogo sovarkhoza (for Voynich). 3. Glavnnyy inzh.
tresta Tagilstroy (for Ben'yaminovich).
(Lightweight concrete)

ACCESSION NR: AP4030671

BR

AUTHOR: Voynich; Ya. L.

8/0129/64/000/004/0044/0045

TITLE: Nitridation of blades in nozzle devices

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 4, 1964, 44-45

TOPIC TAGS: turbine blade nitridation, 15Kh11MF stainless steel, nitridation

ABSTRACT: In high-parameter turbines with steam temperature at 525-565°C at 130 atm nozzle blades are made of 15Kh11MF stainless steel. To protect them from erosion they are nitridated. Since stainless steel does not readily nitridate (passivation film, high alloy content), methods had to be found to improve nitridation. Sand blasting of the surface and etching with Monipenny reagent (not explained), nitridation in two steps (12 hrs each) at 530 and 580°C with ammonia dissociation rate of 25-45% produces a nitridated layer depth of 0.25-0.30 mm having a HV hardness at the surface of 700-900. Turbine parts prior to nitridation were annealed at 700-720°C for 5 hrs. Such turbine parts for steam distribution as bushings, valve seats, nuts, etc. were also nitridated. Nozzles with nitridated blades made of 15Kh11MF steel are mounted on VRT-15 turbines and have been in operation for a

Cord 1/2

ACCESSION NR: AP4030671

considerable time. Orig. art. has: 1 figure, no formulas, 1 table.

ASSOCIATION: Kharkovskiy turbinnyy zavod. (Kharkov Turbine Works)

SUMMITTED: 00

ENCL: 00

SUB CODE: MM, PR

NO REF Sov: 000

OTHER: 000

Card 2/2

VOYNICH, Ya.L., inzh.; KRAVCHENKO, N.A., inzh.

Use of a heat resistant EI765 alloy for bonding components.
Energomashinostroenie 8 no.10:37 0 '62. (MIRA 15:11)
(Turbines)

VOYNICH, Ya. L.

S/114/61/000/012/005/006
E194/E955

AUTHORS: Kravchenko, N.A., Vereshchaga, Ye.A., Khabachev,
V.M., Voynich, Ya.L. and Nasankin, A.F., Engineers

TITLE: Recent work of KhTGZ imeni Kirov

PERIODICAL: Energomashinostroyeniye, no.12, 1961, 48

TEXT: An investigation of the resistance to growth of
high-strength cast iron in steam at temperatures of 375-400°C.
The work was done on cast iron grade B4-45-5 (VCh-45-5) used in
the diaphragms of turbine type ~~MBK~~ -150 (PVK-150). Test results
are also given of relaxation stability, hot hardness, and
mechanical properties at various temperatures. The resistance to
growth was determined as the change in length and weight of
specimens 15 mm diameter and 100 mm long during periods up to
4500 hours. The material displayed some tendency to increase
in length in steam at these temperatures; the mean increase in
length after 5000 hours at 375° was 1.2% and after 3000 hours at
400°, 0.86%. Holding for longer times gives no greater increment.
Exposures at 400°C for 5000 hours revealed no change in the

Card 15

Recent work of KhTGZ ...

S/114/61/000/012/005/006
E194/E955

macrostructure of the cast iron. The material is of poor relaxation stability.

An investigation of steel П-3 (P-3) of KhTGZ melt no. 8083. A study was made of a four-ton melt of steel which was used to make a valve frame, parts for welding and experimental forgings. The macro and micro structures of the steel were uniform, and in both the cast and forged states the properties are stable at a working temperature of 580°C. Long-term tensile tests showed that the long-term strength for a time of 100 000 hours at working temperature is: for the forged condition 7.5 kg/mm^2 , for the cast 9.7 kg/mm^2 , and for a welded joint made with electrode type ЦЛ-26М (TSL-26M) not less than 6 kg/mm^2 .

The introduction into manufacture of the thermal diffusion chromium plating process for reinforcing parts of steam distribution mechanisms of turbine type K-300-240. In this 300 MW turbine operating at a pressure of 240 atm there is a need to reinforce the surface of various parts in contact with the steam, such as valve seatings running at temperatures of

Card 2/5

Recent work of KhtGZ ...

S/114/61/000/012/005/006
E194/E955

580°C and above. Nitriding having proved unsuitable, TsNIITmash and TsZL developed a thermal diffusion method of chromium plating. The plating was carried out in a powder consisting of 70% Cr, 29% Al₂O₃ and 1% NH₄S. The parts with chromium plating mixture are packed into a container which is specially sealed to exclude air and plating takes place at a temperature of 1020-1030°C for ten hours. The container with the parts is then hardened in water and annealed. The process gives a surface coating of wear-resistant and very hard carbide Cr₂₃C₆ to a depth of 0.03 mm with a microhardness of 1450-1000 kg/mm². The process is convenient in use and gives a film of good quality.

An investigation of steel grade P-1 (P-1) in the cast condition and its introduction into production.

Tests on an experimental full-scale casting of a cylinder frame of steel grade P-1 showed that: there were no cracks, or accumulations of non-metallic or sulphurous inclusions; mechanical properties were satisfactory in both thin and thick sections; the stability of properties at working temperatures was satisfactory; the long-term strength of the material at a temperature of 600°C is

Card 3/5

Recent work of KhTGZ...

S/114/61/000/012/005/006
E194/E955

100 000 hours is 12-13 kg/mm² for thin and thick specimens. On the basis of the test results castings were made for the frame of the internal high-pressure cylinder of turbine K-300-240 and check tests on the metal gave good results.

Fire-resistant mould paint based on zircon.

Zircon-based fire-resistant paint has been developed and used for more than a year instead of marshallite paint for painting rods of sulphite wood-pitch mixture and it has sometimes been used for painting moulds made of fast-drying liquid-glass mixture for casting carbon and alloy steels for turbines. The paint is made of 88% zircon (iron free) + 2% fire-resistant clay (bentonite) + 10% sulphide alkali. The rods and moulds are given one or two coats of the paint. Use of the paint improves the surface finish of steel castings.

A new quick-drying liquid-glass mould material with the addition of iron ore and cooking salt.

To the usual liquid-glass formulation (consisting of 98.5% quartz-sand, 1.5% fire-resistant clay, 1% caustic soda, 6% liquid glass

Card 4/5

Recent work of KhTGZ ...

S/114/61/000/012/005/066
E194/E955

and 0.5% fuel oil) (Abstractor's note: The %'s add up to 107.5%) is added 1% iron ore and 1% cooking salt. This change, whilst not altering the main properties considerably improves separation of the core from the metal by forming a vitreous skin over the mould surface. The material is used for carbon and alloy steel castings of up to 2.5 tons. There are no figures, tables or references.

✓

Card 5/5

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNICH, Ya.L., inzh.; KRAVCHENKO, N.A., inzh.

Some new work of the Kirov Turbogenerator Plant in Kharkov.
Energomashinostroenie 10 no.7:48 J1 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

VOYNICH, Ya.I., inzh.; KRAVCHENKO, N.A., inzh.

Some new work of the S.M. Kirov Turbogenerator Factory in Kharkov.
(MIRA 17:11)
Energomashinostroenie 19 no.8:46 Ag '64.

AUTHOR:

Voynich-Syanozhentskiy, T.G.S/124/63/000/001/017/080
D234/D308

TITLE:

Criterial conditions of the appearance of aeration
of smoothly varying turbulent streams

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 1, 1963, 53,
abstract 18323 (Tr. 1-y. Zalkaykazsk. konferentsiy
molodykh nauchn. sotrudn. i posvyashch. vopr. energ.,
gidravliki-gidrodinamiki i meteorologidrol., Yerevan,
1960, 127-138)TEXT:
The loss of stability of the stream is related to
the condition of instability of the dividing surface between water and air.
The condition of propagation of surface waves valid for a potential load.
The applicability of this equation to the problem of small oscillations
of the free surface of the stream is shown. The
wavelength of disturbances determining the stream is assumed to be proportional to the ratio of the free
surface to the average local flow velocity. An expression is
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Criteria conditions ...

S/124/63/000/001/017/080
D234/D308

obtained giving the conditions for the aeration to take place in the case of uniform flow. The obtained condition for the beginning of aeration agrees qualitatively with experimental data. 13 references.

[Abstracter's note: Complete translation] ✓

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VOYNICH-SYANOZHENTSKIY, T.G.

Equations for the turbulent flow of an incompressible fluid
and the distribution of velocities in a flat uniform flow.
Soob. AN Gruz.SSR-25 no.2:137-144 Ag '60. (MIRA 13:11)

1. Tbilisskiy nauchno-issledovatel'skiy institut sooruzheniy i
gidroenergetiki im. A.V.Vintera. Predstavлено akademikom K.S.Zavriyevym.
(Hydromechanics)

112-57-8-16338D

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8, p 43 (USSR)

AUTHOR: Voynich-Syanozhentskiy, T. G.

TITLE: Principal Points of the Theory of a Perfect Hydraulic Jump
(Osnovnyye voprosy teorii sovershennogo gidravlicheskogo pryzhka)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to Vses. n.-i. in-t vodosnab., kanaliz., gidrotekhn. sooruzh. i inzh. gidrogeol. (the All-Union Scientific and Engineering Institute of Water Supply, Sewerage, Hydroengineering Installations, and Engineering Hydrogeology), Tbilisi, 1956.

ASSOCIATION: Vses. n.-i. in-ta vodosnab., kanaliz., gidrotekhn. sooruzh. i inzh. hidrogeol. (the All-Union Scientific and Engineering Institute of Water Supply, Sewerage, Hydroengineering Installations, and Engineering Hydrogeology)

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VOYNICH-SYANZHENTSKIY, T.G.; LOMTATIDZE, V.G.

Determining the local washout depth in a channel behind a horizontal jet. Soob. AN Cruz. SSR 21 no.1:83-88 J1 '58.
(MIRA 11:10)

1. Tbilisskiy nauchno-issledovatel'skiy institut sooruzheniy i
gidroenergetiki. Predstavleno chленom-korrespondentom Akademii
F.N. Tavadze.

(Hydraulic jump)

SOV/124-58-8-8789

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 66 (USSR)

AUTHOR: Voynich, T.G.

TITLE: The Diving-jet Hydraulic Jump and the Energy Dissipation
Associated Therewith (Donnyy gidravlicheskiy pryzhok i
gasheniye energii)

PERIODICAL: Tbilissk. n.-i. in-ta sooruzh. i gidroenerg., 1955, Vol 9,
pp 29-43

ABSTRACT: Starting from the schematic concept of a submerged jump occurring during the outflow of water from under a gate valve (under the conditions of the plane problem), the author evolves, with the aid of the Bernoulli equation, a differential equation for the motion of the basic flow which has as its upper limit the zero-velocity line of the eddy. An effort is made to allow for large-scale fluctuations occurring in the flow and for the departures from the hydrostatic law of pressure distribution. The term representing the energy losses has the form of a sum of the energy losses due to friction and of those due to flow mixing (wherein the flows converging with and diverging from the basic flow are assumed to do so at an angle of 90°). In

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The Diving-jet Hydraulic Jump (cont.)

performing his calculations the author proceeds from the usual assumptions, i.e., no energy losses due to friction, a pressure distribution that obeys the hydrostatic law, and free-surface and eddy zero-velocity contours that are parabolic curves. From the equation obtained and from the momentum equation set up for the jump an expression is obtained for the velocity correction factor (for the section immediately downstream of the eddy). The author recommends this formula for use in practical calculations. Results of the calculations included in the paper are in agreement with the experimental data.

V.B. Dul'nev

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"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

Vaynicht, T.S.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

S/114/62/000/010/003/003
E193/E383

AUTHORS: Voynich, Ya.L. and Kravchenko, N.A., Engineers
TITLE: Application of the high-temperature alloy EI 765
(EI765) as a material for reinforcing parts
PERIODICAL: Energomashinostroyeniye, no. 10, 1962, 37
TEXT: The paper reports successful application of the alloy EI765 in cases where its high relaxation stability at elevated temperatures is of primary importance, for instance, as a material for bolts, nuts and cotter pins in high-pressure steam turbines operating at 580 - 750 °C. The alloy is of the following composition (%): 0.1 - 0.16 C, 0.5 Si, 0.5 Mn, 14.0 - 16.0 Cr, 1.7 - 2.2 Al, 3.0 - 5.0 Mo, 4.0 - 6.0 W, 1.0 - 1.4 Ti, 0.01 B, 3.0 Fe, 0.025 S, 0.025 P, remainder Ni. The mechanical properties at 20 °C are: UTS 105 kg/mm²; 0.2% proof stress, 60 kg/mm²; elongation 20%; reduction in area 25%; impact strength 8 kgm/cm². The corresponding figures at 700 °C are: UTS 75 kg/mm²; elongation 22%; reduction in area 25%;
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E193/E383

Application of

impact strength 8 kgm/cm². The various parts are fabricated from wrought or forged stock, the forging being done at 960 - 1 160 °C. forgings are given the following heat treatment: oil-quenching from 1 150 °C plus 20 hours ageing at 800 °C. Rough machining is done after quenching, when the alloy has a hardness of 140 - 200 HB; the final machining is carried out after ageing, which increases the hardness to 255-320 HB. The EI765 alloy is also used as a material for forged blades of large gas turbines.

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"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9

VOYNICH, Ya.L., inzh.

Combined chroming and heat treatment of springs made with
E1723 steel. Energomashinostroenie 8 no 15:28 My '62.
(MIRA 15:5)
(Steel--Heat treatment) (Protective coatings)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120003-9"

KRAVCHENKO, N.A., inzh.; VOYNICH, Ya.L., inzh.

Use of a natural gas torch for heating and localized thermal
treatment of components in the welding of turbines.
Energomashinostroenie 9 no.5:34-35 My '63. (MIRA 16:7)

(Turbines---Welding)